

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

June 1961

Part II—Fishing Information*

Sea-surface temperatures, fishing and research information
of interest to the West Coast tuna-fishing industry
and marine scientists

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* Part I - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, Post Office Building, San Pedro, California

TOPOGRAPHIC CHART NO. 11

Topographic Chart No. 11 which shows seamounts and protuberances rising above the ocean floor between 10° N. and 17° N. latitude and 110° W. to 120° W. longitude was printed in June. Of the 24 charts to be constructed for regions of the eastern Pacific Ocean, fourteen have now been completed. Charts may be obtained from Inter-American Tropical Tuna Commission representatives or by writing directly to our San Diego address.

EARLY SEASON ALBACORE CATCHES 1961

The U. S. Bureau of Commercial Fisheries research vessel BLACK DOUGLAS returned to San Diego on June 19 having completed a nineteen day oceanographic survey in the eastern Pacific Ocean. Extensive physical, chemical and biological oceanographic observations were made in the region bounded by 31° to 38° N. latitude and from the west coast of California and Baja California to 130° W. longitude. Analysis of data obtained from this survey will be valuable in furthering understanding of migration patterns of the albacore.

The first albacore caught in the eastern Pacific in 1961 was by the BLACK DOUGLAS on June 6 at $34^{\circ}54'$ N. latitude and $124^{\circ}28'$ W. longitude (Figure 1). Two days later a Navy picket vessel at 32° N. latitude and 124° W. longitude took a twelve-pound albacore (Figure 1). The most northern catch this year reported by the Navy was at 40° N. latitude and 133° W. longitude on June 30. Last year the first catch reported as far north as 40° N. latitude was on July 10. Best catch for any one day was by a Navy picket at 35° N. latitude and 131° W. longitude on June 26 when 28 albacore were taken. It is possible that additional catches were made by Navy pickets in June but reports are yet to be received at this laboratory.

Commercial catches in June were reported for areas north and west of Guadalupe Island. Sport catches centered in the area from approximately 50 miles southwest of San Diego to Guadalupe Island.

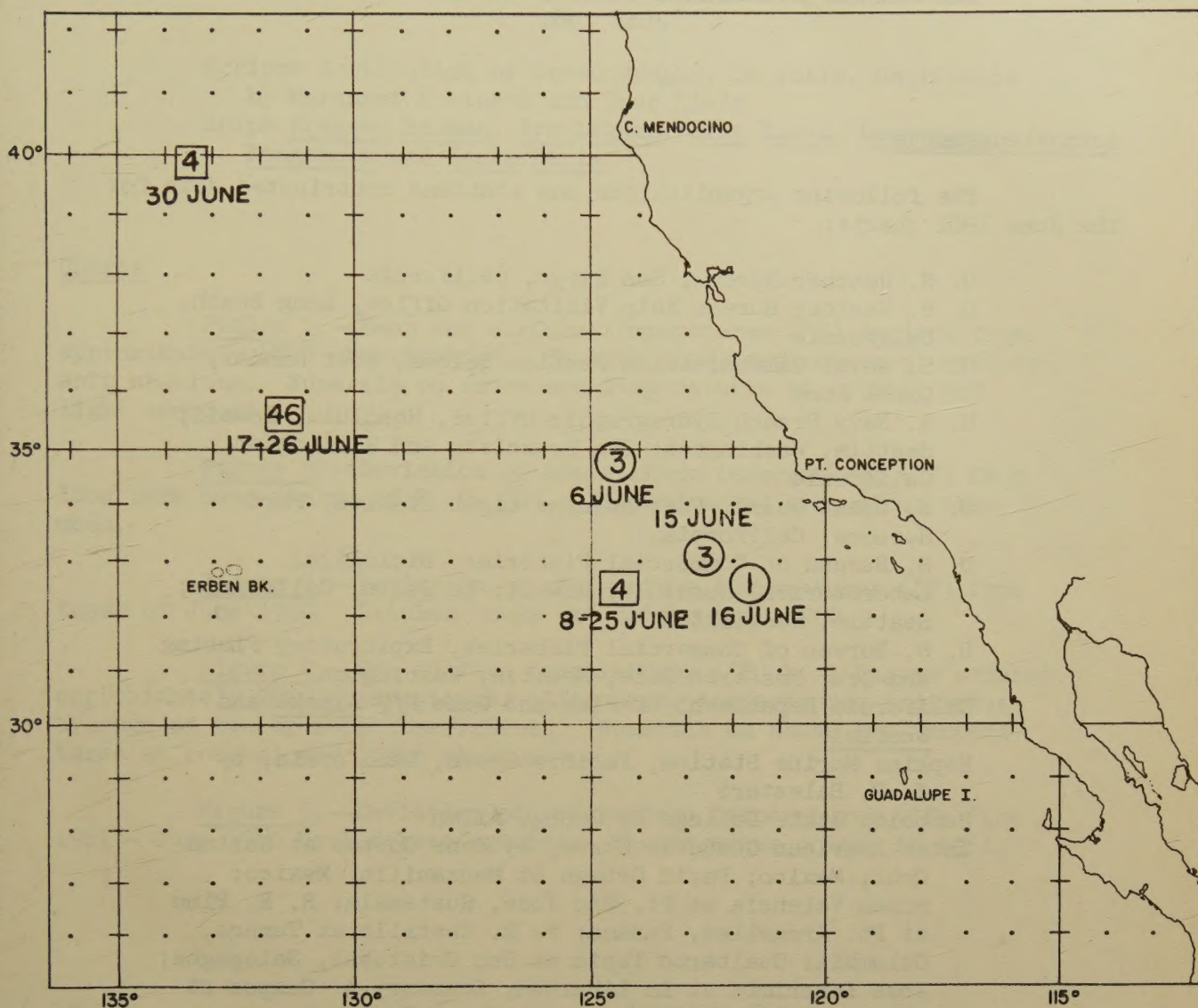


FIGURE 1.--Locations and dates of albacore catches in June 1961 by the BLACK DOUGLAS (number taken enclosed by circles) and by Navy picket vessels (number taken enclosed by squares).

James H. Johnson, Chief
Tuna Forecasting Investigation

SEA-SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN
JUNE 1961

Acknowledgements

The following organizations and stations contributed data for the June 1961 charts:

U. S. Weather Bureau, San Diego, California
U. S. Weather Bureau Ship Visitation Office, Long Beach, California
U. S. Naval Communication Station Balboa, Fort Amador, Canal Zone
U. S. Navy Branch Hydrographic Office, Honolulu, Hawaii; Seattle, Washington; San Francisco and Wilmington, California
U. S. Coast Guard, Port Hueneme Light Station, Port Hueneme, California
U. S. Bureau of Commercial Fisheries, Biological Laboratories, Honolulu, Hawaii; La Jolla, California; Seattle, Washington
U. S. Bureau of Commercial Fisheries, Exploratory Fishing and Gear Research Base, Seattle, Washington
California Department of Fish and Game M/V Alaska and Scofield
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Humboldt State College by George Allen
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Scripps Institution of Oceanography, La Jolla, California
by Margaret Robinson and Hans Klein
Ships Frances Salman, Trolleggen, Elin Haven, Besseggen,
Kongsholm and Santa Maria

Charts

Figure 1.--Mean sea surface temperatures ($^{\circ}\text{F}$) derived from approximately 8000 observations. Squares show temperature at weather-ship stations. Numerals on shore are temperatures at coastal and light stations.

Figure 2.--Deviation of sea surface temperatures ($^{\circ}\text{F}$) from long term mean charts of H. O. 225. Hatched areas are colder than mean.

Figure 3.--Deviation of sea surface temperatures ($^{\circ}\text{F}$) from those of June 1960. Hatched areas are colder than 1960.

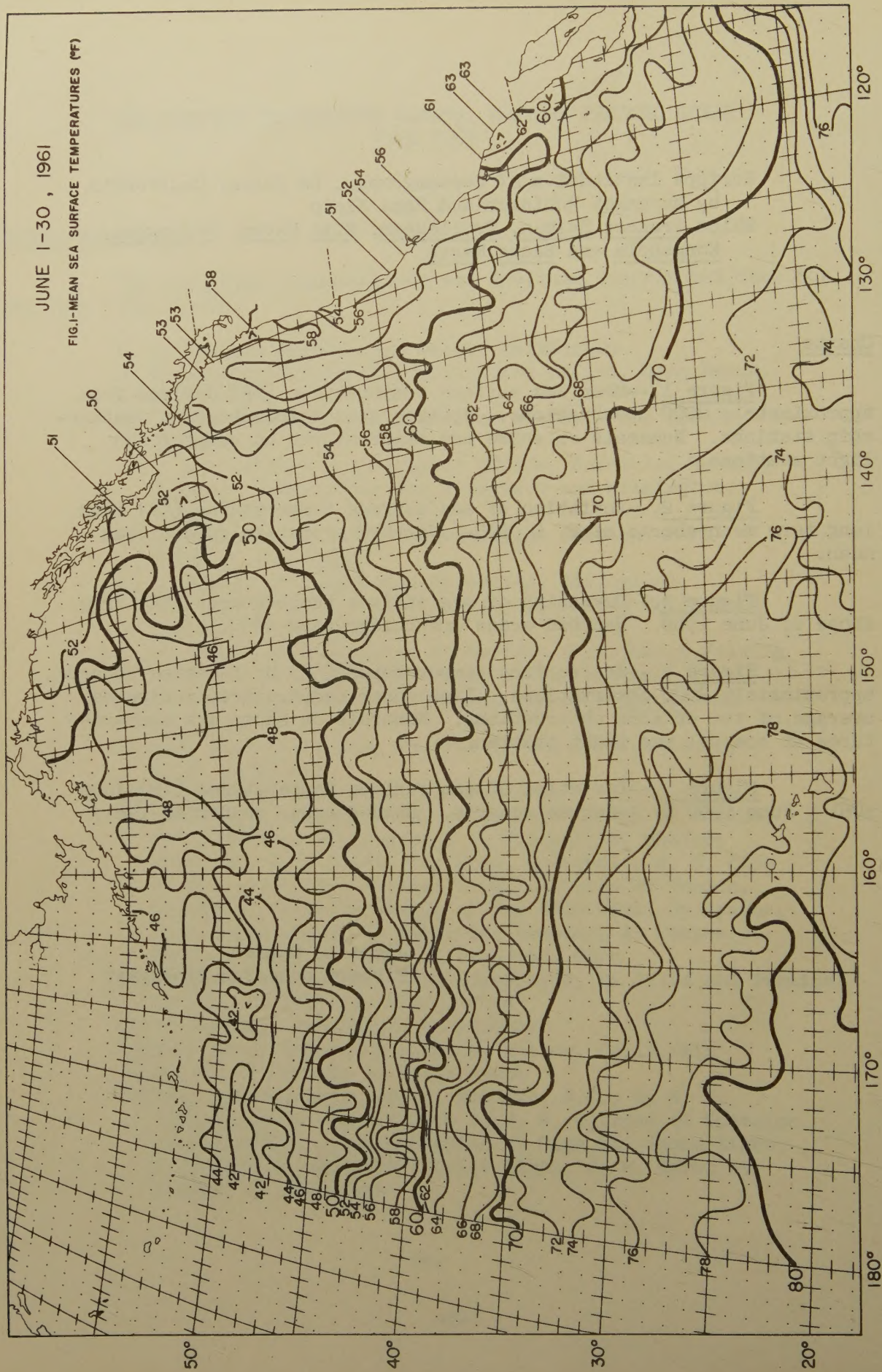
Figure 4.--Sea surface temperatures ($^{\circ}\text{F}$) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal and light stations.

Figure 5.--Deviation of sea surface temperatures ($^{\circ}\text{F}$) June 1961 - June 1960 by 1-degree squares. Shaded areas colder in 1961.

James A. Renner
Fishery Research Biologist

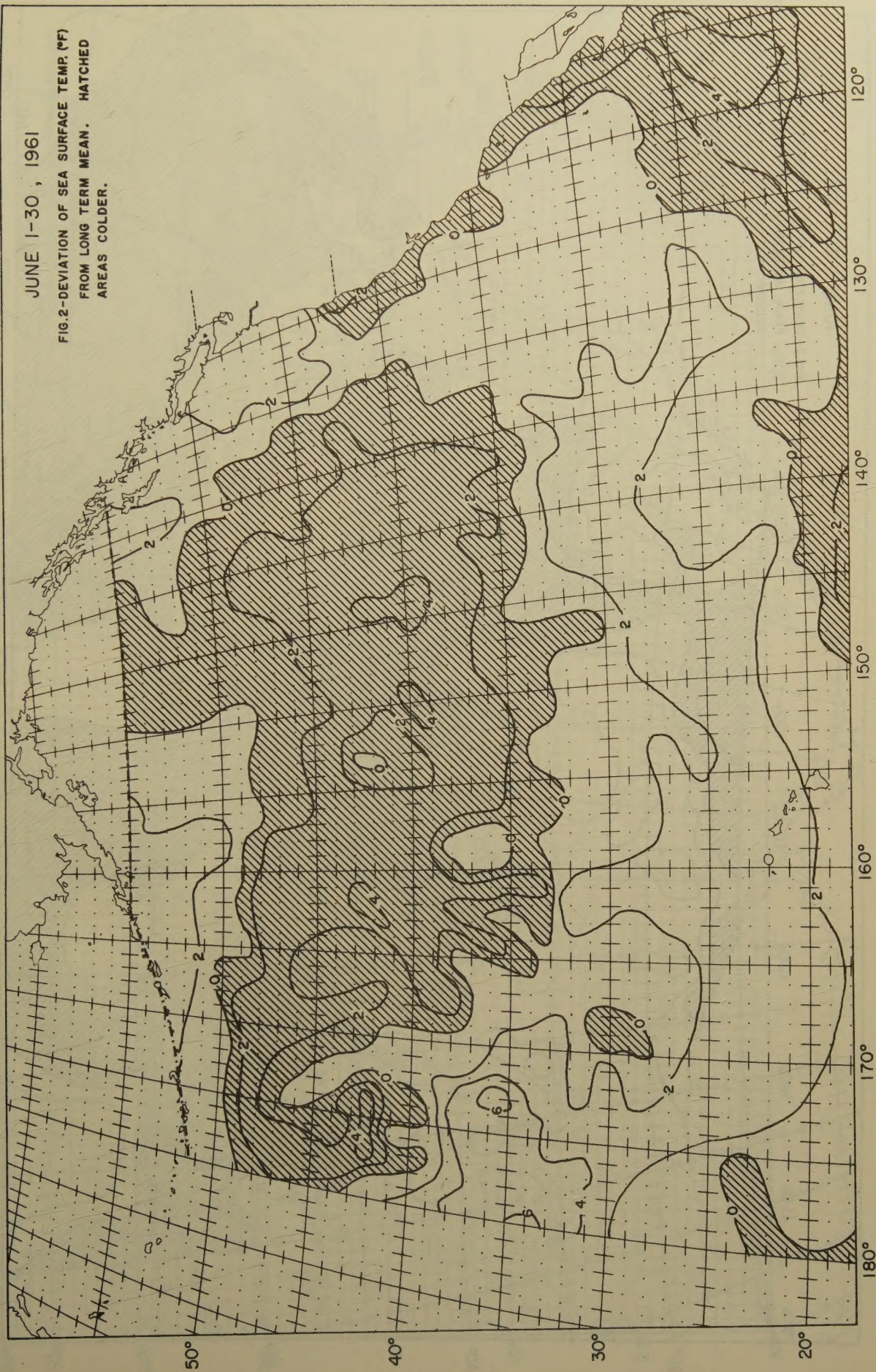
JUNE 1-30, 1961

FIG. 1-MEAN SEA SURFACE TEMPERATURES (°F)



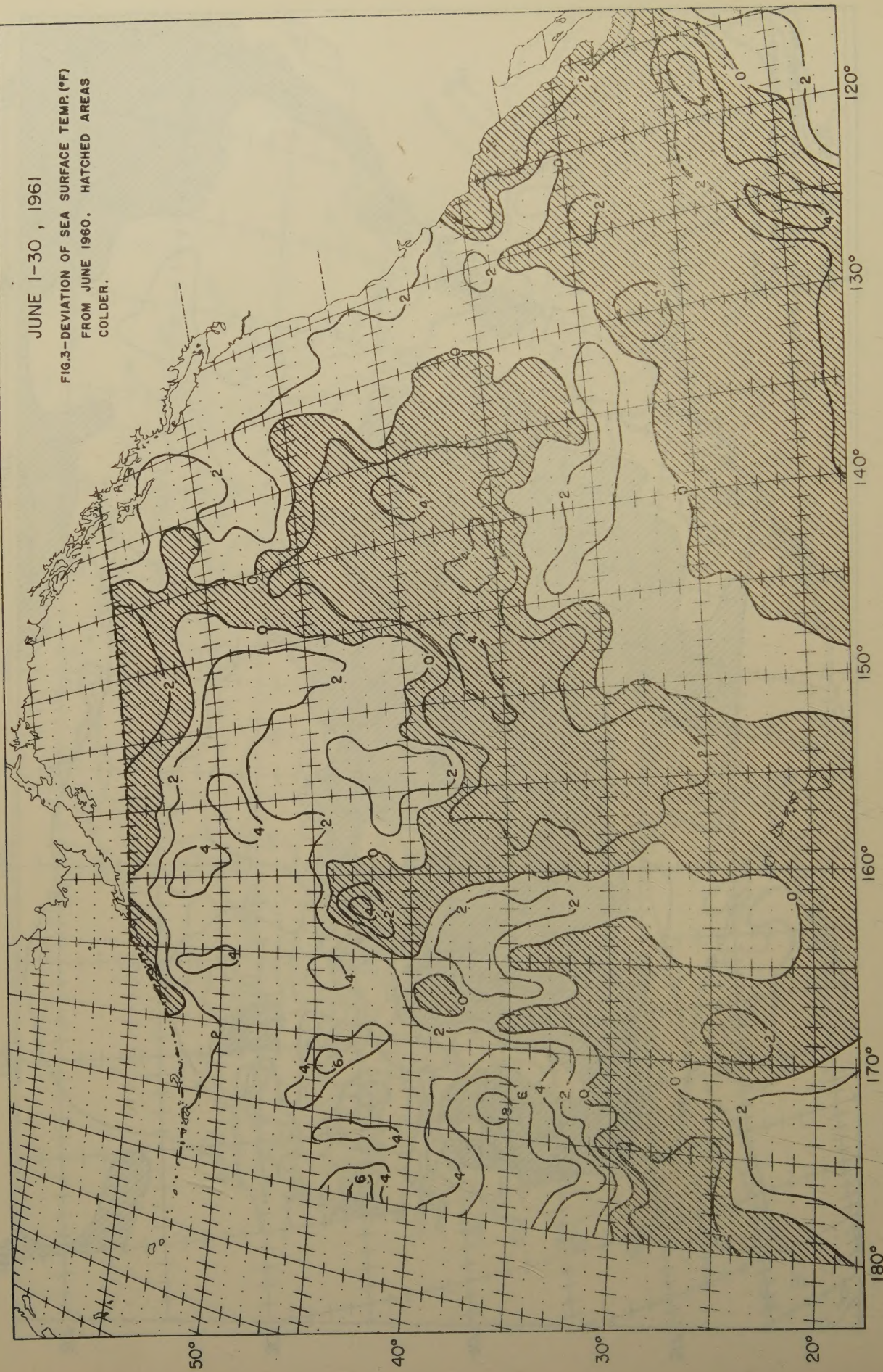
JUNE 1-30, 1961

FIG. 2-DEVIATION OF SEA SURFACE TEMP. (°F)
FROM LONG TERM MEAN. HATCHED
AREAS COLDER.



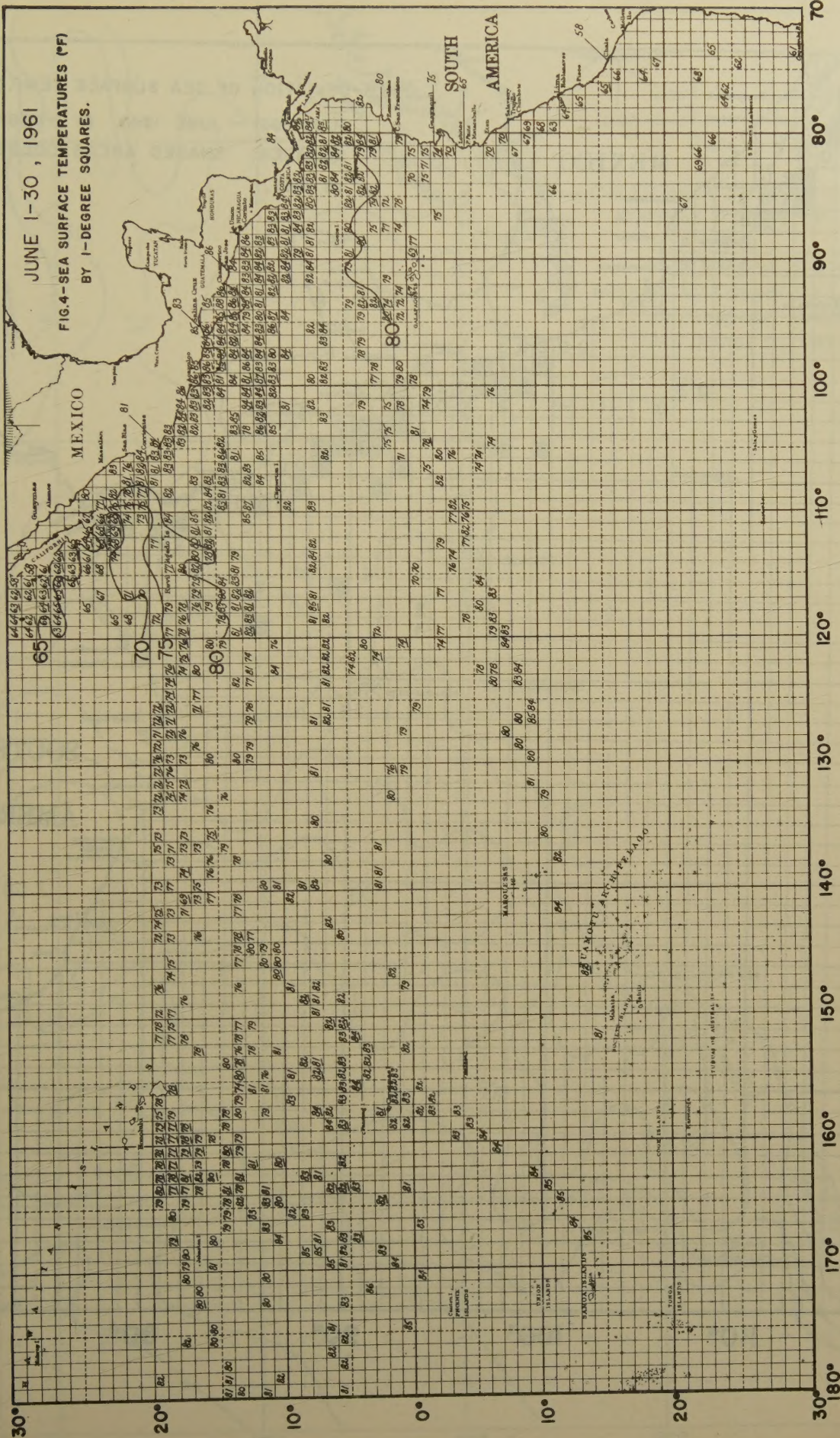
JUNE 1-30, 1961

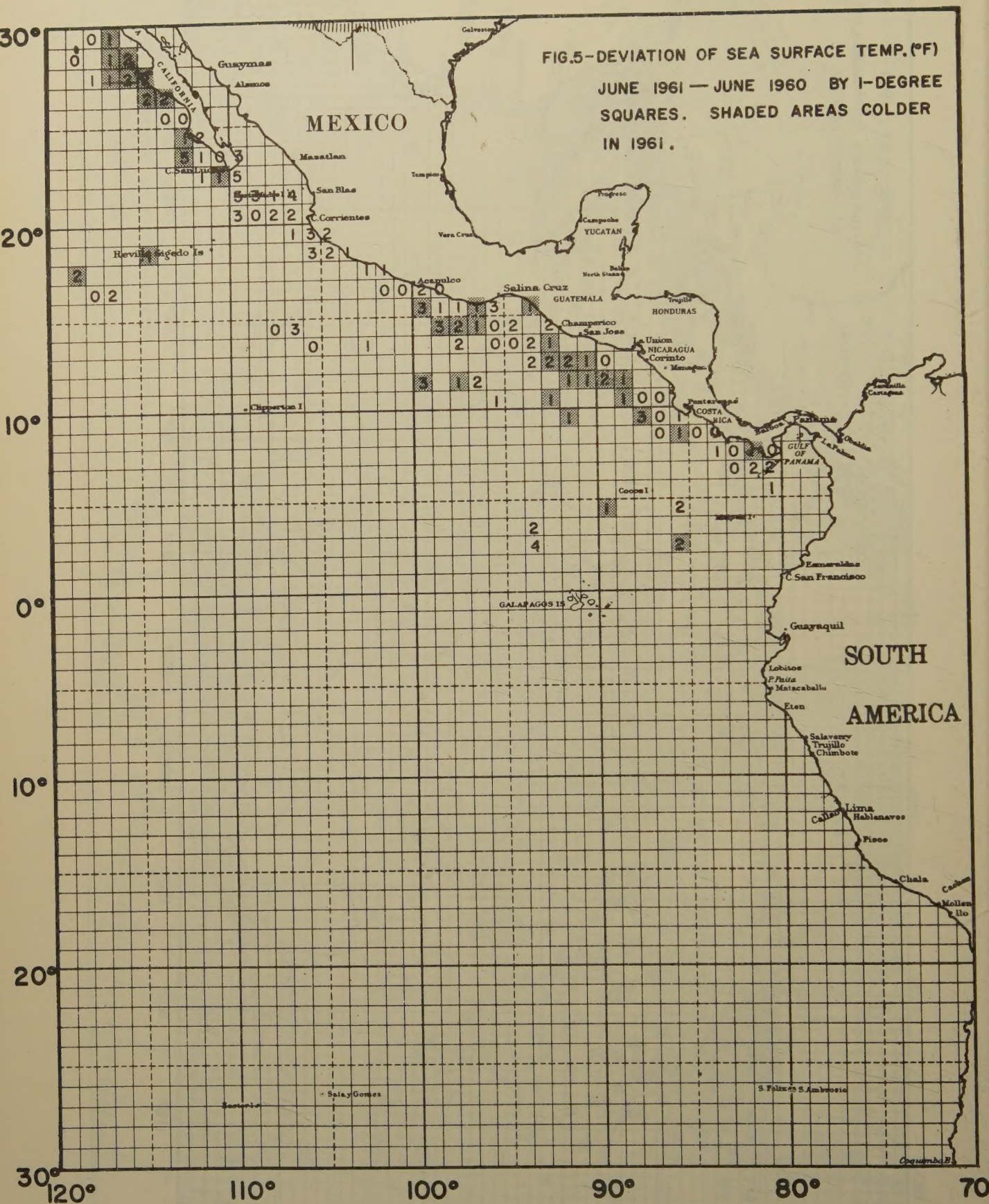
FIG.3-DEVIATION OF SEA SURFACE TEMP.(°F)
FROM JUNE 1960. HATCHED AREAS
COLDER.



JUNE 1-30, 1961

FIG. 4-SEA SURFACE TEMPERATURES (°F)
BY 1-DEGREE SQUARES.

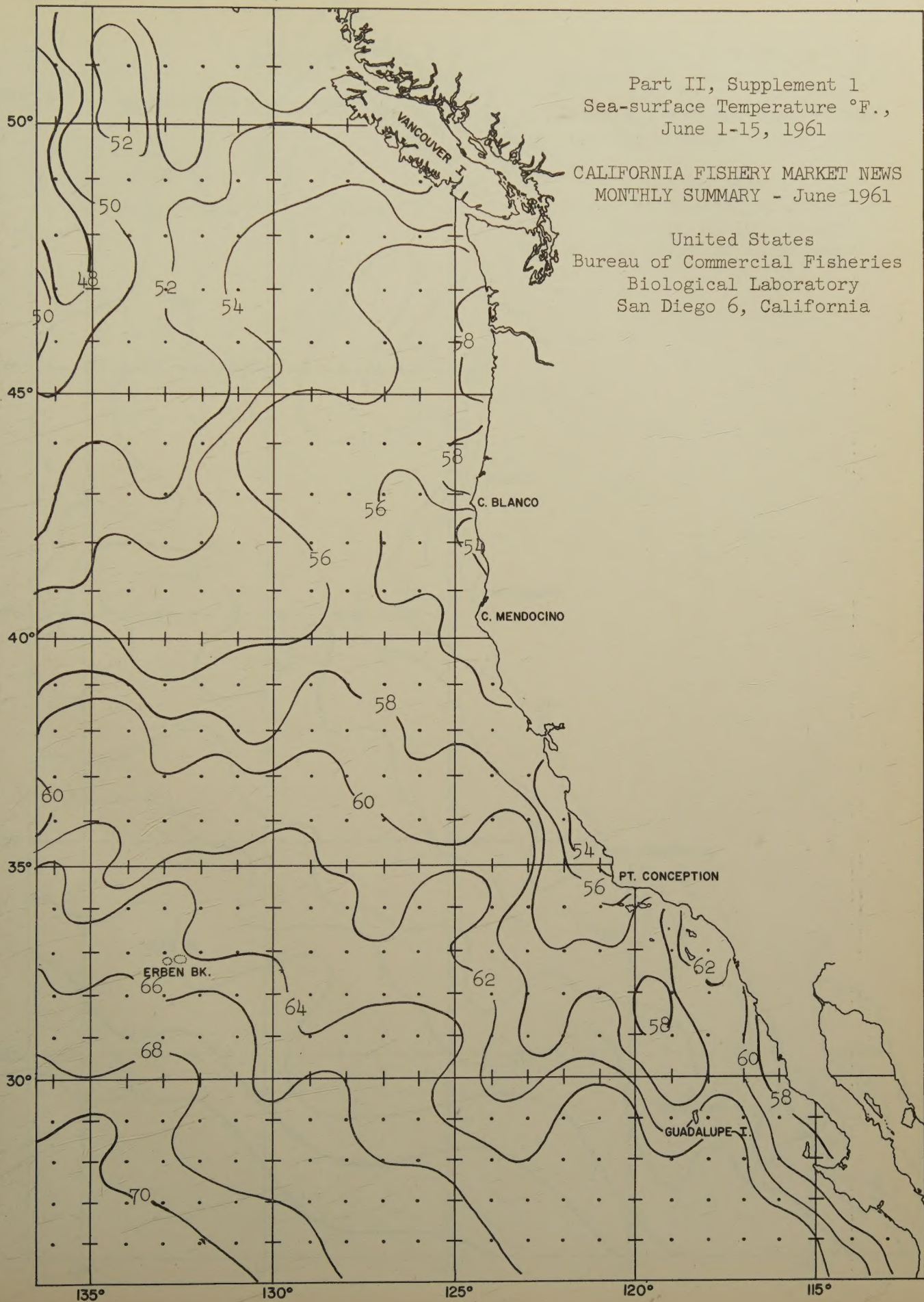




Part II, Supplement 1
Sea-surface Temperature °F.,
June 1-15, 1961

CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - June 1961

United States
Bureau of Commercial Fisheries
Biological Laboratory
San Diego 6, California



Part II, Supplement 2
Sea-surface Temperature ° F.,
June 16-30, 1961
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